

## **6.11 Transferring Gaged Data**

### **6.11.1 Procedure**

Gaged data can be transferred up or downstream on the gaged stream only. If the drainage area for the location of concern is  $\geq 75\%$  and  $\leq 125\%$  of the drainage area at the gage, then the gaged data can be transferred with equation 6.12.

### **6.11.2 Transfer Equation**

The following equation shall be used to transfer gage data:

$$\frac{Q_1 / A_1}{Q_2 / A_2} = \frac{A_1^{[(0.894 / A_1^{0.048}) - 1]}}{A_2^{[(0.894 / A_2^{0.048}) - 1]}} \quad \text{(English only)} \quad (6.12)$$

$Q_1$  and  $A_1$  represent the discharge rate and watershed area at one point in the watershed and  $Q_2$  and  $A_2$  represent the rate and area at the gage or known outlet which remain constant while  $Q_1$  and  $A_1$  are varied.

Q = discharge in cubic feet per second

A = drainage area in square miles

Source: Adopted from Mockus, V., SCS National Engineering Handbook, Section 4, Hydrology, 1972